

# United States Patent and Trademark Office

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## NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

10/10/2003

Scully, Scott, Murphy & Presser 400 Garden City Plaza Garden City, NY 11530

EXA	MINER
STRICKLA	M ZANOL, DN
ART UNIT	PAPER NUMBER

DATE MAILED: 10/10/2003

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
n9/837 788	04/18/2001	Rendian Zhao	14512	9956

TITLE OF INVENTION: PROCESS FOR CONTINUOUSLY REGENERATING CATALYST PARTICLES

1	APPLN, TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE	]
١		NO	\$1330	\$300	\$1630	01/12/2004	

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

if the SMALL ENTITY is shown as NO:

A. I .y TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

Applicant claims SMALL ENTITY status.
 See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mall Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

Page 1 of 4

PTOL-85 (Rev. 10/03) Approved for use through 04/30/2004.

#### PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450

Alexandria, Virginia 22313-1450

(703) 746-4000 or <u>Fax</u>

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks I through 4 should be completed where appropriate. All further correspondence including the Petent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block I, by (a) specifying a new correspondence address; and/or (b) Indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)

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10/10/2003

Scully, Scott, Murphy & Presser 400 Garden City Plaza Garden City, NY 11530

Note: A certificate of mailing can only be used for domestic mailings of the fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional poper, such as an easignment or formal drawing, must have its own certificate of mailing or transmission.

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I hereby certify that this Fer(s) Transmittal is being deposited with the United
States Postal Service with sufficient postage for first class mail in an envelope
addressed to the Mail Sup 185UE FEE address above, or being facsimile

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	09/837.788	04/18/2001	Rendian Zhao	14517	9956

TITLE OF INVENTION: PROCESS FOR CONTINUOUSLY REGENERATING CATALYST PARTICLES

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APPLN. TYPE	SMALL ENTITY	ISSUE F	EE P	UBLICATION FEE	TOTAL FEE	(S) DUE	DATE DUE
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Change of corresponde Address form PTO/SB/L	ence address (or Change of ( 22) attached.	Correspondence	firm (having as a	atively, (2) the nar member a register	rad attorney or	Murphy	& Presser
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PLEASE NOTE: Unicas been previously submitte (A) NAME OF ASSIGN 1. China Pe 2. Research	trochemical Cor Institute of I	low, as assigned di submitted under se (8 rporation Petroleum	ata will appear on the parate cover. Comple ) RESIDENCE: (CIT	e patent. Inclusion of this form is a yeard STATE OR o	COUNTRY) P.	R. Chin R. Chin	a a
4a. The following fee(s) are	enclosed:		. Payment of Fec(s):	•		•	•
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Director for Patents is reques	apply the Issue Fee a	Publication Fee	(if any) or to re-apply	any previously pai	id issue fee to the ap	plication ide	stified above.
Authorized Signature)  Edward W. Gro  NOTE: The Issue Fee and	12 Reg. No.	(Date) 12				<i>:</i>	
other than the applicant	a registered attorney or ag- cords of the United States Pr	ont: or the assigne	e or other party in	,			•

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USFTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USFTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Offlicet, U.S. Department of Commerce, Alexandria, Virginia 22313-1450. DO NOT SEND FIES OR COMPLETED FORMS. TO THIS ADDRESS. SEND TO: Commissioner for Patents, Alexandria, Virginia 22313-1450.

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UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address COMMISSIONER FOR PATENTS P.O. Bon 1439 Alexandria, Virginia 23313-1450 www.mpnagov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/837,788	8 04/18/2001 Rendian Zhao		14512 9956		
75'	90 10/10/2003		EXAM	NER ·	
Scully, Scott, Mu	rphy & Presser		STRICKLAN	D, JONAS N	
400 Garden City Plant Garden City, NY 11			ART UNIT	PAPER NUMBER	
Garden City, NT 11	טככו		1754		
			DATE MAILED: 10/10/2003	3	

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 217 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 217 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.



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Alexandra, Virginia 22312-1440

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/837,788	88 04/18/2001 Rendian Zhao		14512 999		
7	590 10/10/2003		EXAM	NER.	
Scully, Scott, Mi 400 Garden City P			STRICKLAN	D, JONAS N	
Garden City, NY I			ART UNIT	PAPER NUMBER	
•		•	1754		

**DATE MAILED: 10/10/2003** 

### Notice of Fee Increase on October 1, 2003

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after October 1, 2003, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on October 1, 2003. See Revision of Patent Fees for Fiscal Year 2004; Final Rule, 68 Fed. Reg. 41532, 41533, 41534 (July 14, 2003).

The current fee schedule is accessible from (http://www.uspto.gov/main/howtofees.htm).

If the fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due" but not the correct amount in view of the fee increase, a "Notice of Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice of Pay Balance of Issue Fee," if the response to the Notice of Allowance is to be filed on or after October 1, 2003 (or mailed with a certificate of mailing on or after October 1, 2003), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously-paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Effective October 1, 2003, 37 CFR 1.18 is amended by revising paragraphs (a) through (c) to read as set forth below.

Section 1.18 Patent post allowance (including issue) fees.

(a) Issue fee for issuing each original or reissue patent, except a design or plant patent:

By a small entity (Sec. 1.27(a))......\$665.00
By other than a small entity......\$1,330.00

(b) Issue fee for issuing a design patent:

By a small entity (Sec. 1.27(a))......\$240.00 By other than a small entity.....\$480.00

(c) Issue fee for issuing a plant patent:

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

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P.08/47 10 -

	Application	No.	Applicant(s)	· . ·				
-	09/837,788		ZHAO ET AL.					
Notice of Allowability	Examiner		Art Unit					
	Jonas N. Stri	ckland	1754					
	1 001125 14. 001	OK/6010						
- The MAILING DATE of this communication and All claims being allowable, PROSECUTION ON THE MERITS herewith (or previously mailed), a Notice of Allowance (PTOL-ENTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	IS (OR REMAINS 85) or other appro 7 <b>RIGHTS</b> . This a	<ul> <li>CLOSED in this appropriate communication application is subject to</li> </ul>	olication. If not include will be mailed in due	course. THIS				
<ol> <li>This communication is responsive to <u>amendment filed on 9/29/03</u>.</li> <li>The allowed claim(s) is/are <u>1-17</u>.</li> <li>The drawings filed on <u>05 June 2003</u> are accepted by the Examiner.</li> <li>Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).         <ul> <li>All</li> <li>Some*</li> <li>None</li> <li>the:</li> </ul> </li> </ol>								
1. Certified copies of the priority documents ha								
2. Certified copies of the priority documents ha				din n francis				
3. Copies of the certified copies of the priority		peen received in this	national stage applica	non non me				
International Bureau (PCT Rule 17.2(a))	•		•					
* Certified copies not received:  5. Acknowledgment is made of a claim for domestic priority	v under 35 U.S.C	6 119(e) (to a provisi	onal application).					
(a) The translation of the foreign language provisions								
6. Acknowledgment is made of a claim for domestic priority				ļ				
Applicant has THREE MONTHS FROM THE "MAILING DATE below. Failure to timely comply will result in ABANDONMENT  7.  A SUBSTITUTE OATH OR DECLARATION must be su	of this application	n. THIS THREE-MOI	NTH PERIOD IS NOT	EXTENDABLE.				
INFORMAL PATENT APPLICATION (PTO-152) which gives re	eason(s) why the	oath or declaration is	deficient.					
8. CORRECTED DRAWINGS must be submitted.  (a) Including changes required by the Notice of Drafts  1) hereto or 2) to Paper No  (b) Including changes required by the proposed drawin (c) Including changes required by the attached Examin	person's Patent C	rawing Review ( PTO	-948) attached een approved by the					
Identifying indicia such as the application number (see 37 CF each sheet.	R 1.84(c)) should	e written on the drawi	ngs in the front (not th	e back) of				
9. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.								
Attachment(s)			•					
1 ☐ Notice of References Cited (PTO-892) 3 ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 5 ☐ Information Disclosure Statements (PTO-1449), Paper No 7 ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material  2 ☐ Notice of Informal Patent Application (PTO-152) 4 ☐ Interview Summary (PTO-413), Paper No 6 ☐ Examiner's Amendment/Comment 8 ☑ Examiner's Statement of Reasons for Allowance 9 ☐ Other								

Application/Control Number: 09/837;788 -

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Art Unit: 1754

### Allowable Subject Matter

- 1. Claims 3-5, 7-9, and 11-17 are allowed.
- 2. The following is an examiner's statement of reasons for allowance: The instant application is allowable over the cited prior art, because the cited prior art fails to disclose wherein the regeneration gas first enters the second coke-burning zone prior to passing into the first coke-burning zone, while De Bonneville et al. teaches wherein a regeneration gas first enters the first coke burning zone and flows downwardly into the second coke-burning zone. De Bonneville discloses wherein having a first combustion zone having combustion gas which circulates in co-flow relationship with the catalyst and treats the catalyst. It is thereafter mentioned wherein the catalyst in the second combustion zone is treated with gases from the first combustion zone and the burning gases are discharged from the second burning zone and passed to a washing loop (see col. 4, lines 5-17 and col. 5, line 67 – col. 6, line 21). Furthermore, the water content of the regeneration gas in the second coke burning zone is 1400 ppmv, whereas the water content of the regeneration gas entering the second coke-burning zone is 10-200 ppmv as recited in instant claims 15 and 17. the water content of the regeneration gas entering the second coke-burning zone is critical to longer service of the regenerated catalyst.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Application/Control Number: 09/837;788

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### **Conclusion**

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jonas N. Strickland whose telephone number is 703-306-5692. The examiner can normally be reached on M-TH, 7:30-5:00, off 1st Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley Silverman can be reached on 703-308-3837. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-0661.

Jonas N. Strickland October 6, 2003 STANLEYS, SKUERMAN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 1700